

BC STATS

Ministry of Finance and Corporate Relations

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Migration Highlights ◆ Second Quarter 1998

The population of British Columbia had surpassed the 4 million mark by March 1, 1998, according to new estimates released by Statistics Canada. These estimates incorporate information from the 1996 Census plus an adjustment for net census undercount (see the article which follows for further detail about the adjustment).

In the past three quarters the growth of the provincial population has slowed considerably, with the annual increase at July 1, 1998 registering 1.3%. There has been a steady slowing in the growth of the population since mid-1994 — the annual increase at that time was 3.1%.

During the second quarter of 1998, B.C. gained a total of 3,306 persons as a result of net migration from **all sources**. This compares to an increase of 13,000 in the second quarter of 1997. Both international and interprovincial migration contributed to the large decline in the second quarter.

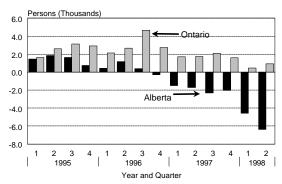
Net **international** migration to the province was much lower than in the same quarter of last year, with a net inflow of 8,231 persons. Immigration to many other parts of the country was also down in the second quarter, with the result that B.C.'s share of Canadian immigration remained high (21.6%).

On a seasonally adjusted basis, net international migration increased marginally in the second quarter of 1998, following declines in the previous five quarters.

For the second quarter in a row B.C. had a net outflow of people to **the rest of Canada**, with a loss of 4,925 persons in the latest quarter. Both more people leaving B.C. to move to other provinces and fewer people coming to B.C. from other provinces contributed to the net outflow.

On a seasonally adjusted basis, net interprovincial migration fell to the lowest level on record.

Larger net flows of people from B.C. to Alberta in the second guarter.



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The net outflow of people from B.C. to Alberta jumped to 6,392 persons in the second quarter of 1998. The net inflow from Ontario (931) and the rest of the country (536) remained small. The last time that a net interprovincial migration loss occurred was during the mid-1980s. However, during that period the outflows were mainly to Ontario rather than Alberta.

| Second Quarter 1998 | (000s) |
|----------------------------------|---------|
| Population: Apr 1, 1998 | 4,004.8 |
| Plus Interprovincial Arrivals | 15.9 |
| Minus Interprovincial Departures | 20.8 |
| Plus Immigrants | 9.9 |
| Minus Emigrants | 1.6 |
| Net Non-Permanent Residents | 0.8 |
| Plus Returning Canadians | 0.8 |
| Plus Births | 11.9 |
| Minus Deaths | 7.2 |
| Population: Jul 1, 1998 | 4,014.3 |

Note: The estimates for non-permanent residents for 1998 are based on very preliminary data and as such are subject to change.

Net Population Movement For British Columbia Apr 1998 to Jun 1998 Net Inflow: 3,306 Persons

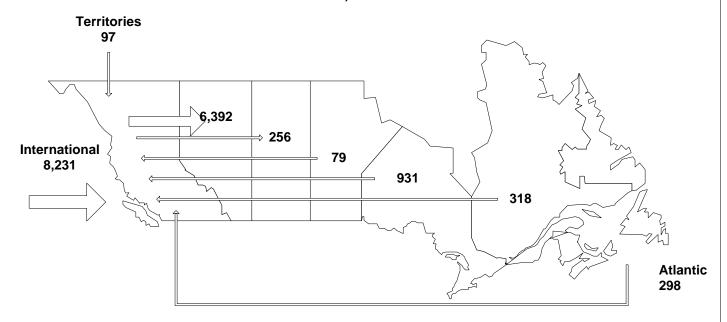


Table 1 **Provincial Migration Flow** Apr 1998 to Jun 1998

| | | | | | | Destina | ation | | | | | | |
|------------|--------------|--------|-----|--------|-------|---------|--------|-------|-------|--------|--------|-------|-------|
| | | Nfld | PEI | NS | NB | Que | Ont | Man | Sask | Alta | ВС | Yukon | NWT |
| | Nfld | - | 98 | 564 | 251 | 128 | 2,234 | 42 | 84 | 1,850 | 284 | 49 | 185 |
| | PEI | 11 | - | 200 | 154 | 62 | 242 | 52 | 13 | 121 | 86 | 0 | 0 |
| | NS | 423 | 212 | - | 985 | 150 | 2,401 | 122 | 79 | 1,362 | 604 | 48 | 53 |
| | NB | 148 | 98 | 895 | - | 682 | 1,374 | 82 | 100 | 912 | 369 | 0 | 10 |
| Origin | Que | 89 | 34 | 293 | 645 | - | 8,853 | 117 | 144 | 1,432 | 1,116 | 0 | 120 |
| <u>.</u> 5 | Ont | 1,066 | 265 | 1,798 | 1,143 | 4,699 | - | 1,798 | 659 | 5,213 | 5,239 | 48 | 174 |
| ō | Man | 52 | 22 | 128 | 66 | 79 | 1,514 | - | 1,104 | 2,135 | 1,119 | 5 | 16 |
| | Sask | 59 | 0 | 75 | 66 | 84 | 846 | 941 | - | 4,623 | 1,037 | 24 | 101 |
| | Alta | 621 | 106 | 422 | 331 | 318 | 2,927 | 1,102 | 3,357 | - | 5,593 | 144 | 226 |
| | ВС | 220 | 64 | 550 | 211 | 798 | 4,308 | 1,040 | 1,293 | 11,985 | - | 234 | 133 |
| | Yukon | 16 | 0 | 6 | 0 | 16 | 69 | 27 | 78 | 311 | 314 | - | 12 |
| | NWT | 62 | 0 | 75 | 8 | 35 | 108 | 130 | 80 | 711 | 150 | 32 | - |
| | | | | | | | | | | | | | |
| | In-Flow | 2,767 | 899 | 5,006 | 3,860 | 7,051 | 24,876 | 5,453 | 6,991 | 30,655 | 15,911 | 584 | 1,030 |
| | Out-Flow | 5,769 | 941 | 6,439 | 4,670 | 12,843 | 22,102 | 6,240 | 7,856 | 15,147 | 20,836 | 849 | 1,391 |
| Net Inte | erprovincial | -3,002 | -42 | -1,433 | -810 | -5,792 | 2,774 | -787 | -865 | 15,508 | -4,925 | -265 | -361 |
| Net In | nternational | | | | | | | | | | 8,231 | | |
| | Total Net | | | | | | | | | | 3,306 | | |
| | | | | | | | | | | l | | J | |

Statistics Canada.

Source: Prepared by: Population Section, BC STATS

September 28, 1998

Table 2
Quarterly Components of Population Change for British Columbia

| | | | | | Migration | | | | | | Nat | ural Incre | ase | Total | Popula | tion |
|--------------|---------|------------------|-----------------|----------------|------------------|----------------|-----------------|------------------|----------------|------------------|------------------|----------------|-----------------|------------------|------------------------|------------|
| | | In | terprovin | cial | In | ternational | | Total | | | | | | | Population | Annual |
| | | | | | | | | Net | Net | Returning | | | Natural | Total | at End of | Growth |
| Year | Quarter | In | Out | Net | Immigration : | Emigration | Net | Migration | N.P.R. | Canadians | Births | Deaths | Increase | Increase | Period | Rate (%) |
| 1991 | 1 | 10.744 | 6.712 | 4,032 | 6,739 | 1,100 | 5,639 | 9,671 | (1,115) | 535 | 10.889 | 5,979 | 4,910 | 14.001 | 3,352,560 | 2.6 |
| 1991 | | 18,183 | 10,675 | 7,508 | 8,216 | 1,691 | 6,525 | 14,033 | (615) | 840 | 11,911 | 6,034 | 5,877 | 20,135 | 3,373,399 | 2.5 |
| 1991 | | | 14,493 | 15,569 | 8,325 | 2,705 | 5,620 | 21,189 | 436 | 1,211 | 11,990 | 5,611 | 6,379 | 29,215 | 3,404,523 | 2.5 |
| 1991 | | 15,470 | 8,007 | 7,463 | 8,795 | 1,449 | 7,346 | 14,809 | (2.320) | [′] 718 | 10,822 | 6,353 | 4,469 | 17,676 | 3,424,109 | 2.6 |
| | Total | 74,459 | 39,887 | 34,572 | 32,075 | 6,945 | 25,130 | 59,702 | (3,614) | 3,304 | 45,612 | 23,977 | 21,635 | 81,027 | | |
| | | | | | | | | | , , , | | | | | | | |
| 1992 | | 13,061 | 6,829 | 6,232 | 7,692 | 1,411 | 6,281 | 12,513 | 475 | 630 | 11,270 | 6,409 | 4,861 | 18,479 | 3,444,498 | 2.7 |
| 1992 | | | | 8,740 | 9,627 | 1,362 | 8,265 | 17,005 | 71 | 758 | 11,973 | 5,908 | 6,065 | 23,899 | 3,470,307 | 2.9 |
| 1992 | | 30,606 | 14,068 | 16,538 | 10,088 | 2,498 | 7,590 | 24,128 | 988 | 1,266 | 11,978 | 5,927 | 6,051 | 32,433 | 3,504,650 | 2.9 |
| 1992 | | 15,827 | 7,759 | 8,068 | 9,291 | 1,433 | 7,858 | 15,926 | (2,253) | 733 | 10,935 | 6,371 | 4,564 | 18,970 | 3,525,529 | 3.0 |
| | l otal | 78,596 | 39,018 | 39,578 | 36,698 | 6,704 | 29,994 | 69,572 | (719) | 3,387 | 46,156 | 24,615 | 21,541 | 93,781 | | |
| 1993 | . 1 | 13,321 | 6,639 | 6,682 | 9,833 | 1,360 | 8,473 | 15,155 | (1,690) | 619 | 11,087 | 7,196 | 3,891 | 17,975 | 3,545,414 | 2.9 |
| 1993 | | 19,009 | 10.198 | 8,811 | 11,494 | 1,449 | 10,045 | 18,856 | (1,090) | 706 | 11,067 | 6,135 | 5,824 | 24,201 | 3,545,414 | 2.9 |
| 1993 | | 27,423 | 13,647 | 13,776 | 13,990 | 2,543 | 11,447 | 25,223 | 356 | 1,302 | 11,887 | 5,949 | 5,938 | 32,819 | 3,606,254 | 2.9 |
| 1993 | | 15.474 | 7,148 | 8,326 | 10,394 | 1.476 | 8,918 | 17,244 | (1.898) | 747 | 11.093 | 6.484 | 4,609 | 20.702 | 3,628,866 | 2.9 |
| 1000 | | | 37,632 | 37,595 | 45,711 | 6,828 | 38,883 | 76,478 | (4,417) | 3,374 | 46,026 | 25,764 | 20,262 | 95,697 | 0,020,000 | 2.0 |
| | . 01.0. | . 0, | 0.,002 | 0.,000 | .0, | 0,020 | 00,000 | . 0, 0 | (1, 111) | 0,0 | .0,020 | 20,. 0 . | _0,_0_ | 00,001 | | |
| 1994 | 1 | 13,417 | 7,399 | 6,018 | 11,779 | 1,415 | 10,364 | 16,382 | (194) | 627 | 11,195 | 6,832 | 4,363 | 21,178 | 3,651,953 | 3.0 |
| 1994 | 2 | 20,235 | 10,484 | 9,751 | 13,103 | 1,504 | 11,599 | 21,350 | (208) | 709 | 12,247 | 6,211 | 6,036 | 27,887 | 3,681,750 | 3.1 |
| 1994 | | | 13,216 | 12,439 | 15,210 | 2,607 | 12,603 | 25,042 | 1,809 | 1,314 | 12,249 | 6,144 | 6,105 | 34,270 | 3,717,930 | 3.1 |
| 1994 | | 15,204 | 8,963 | 6,241 | 8,957 | 1,545 | 7,412 | 13,653 | (1,244) | 766 | 11,307 | 6,752 | 4,555 | 17,730 | 3,737,570 | 3.0 |
| | Total | 74,511 | 40,062 | 34,449 | 49,049 | 7,071 | 41,978 | 76,427 | 163 | 3,416 | 46,998 | 25,939 | 21,059 | 101,065 | | |
| 4005 | . , | 40.004 | 0.054 | 4.007 | 0.040 | 4 475 | 0.005 | 40.700 | 070 | 0.40 | 44.000 | 0.004 | 4.005 | 40.500 | 0.750.000 | 0.0 |
| 1995 1995 | | 12,991 16,933 | 8,654 10,659 | 4,337 6,274 | 9,840 11,809 | 1,475 1,580 | 8,365 10,229 | 12,702 | 979 | 643 733 | 11,226 12,218 | 6,961 | 4,265 | 18,589 24,030 | 3,758,069 3,784,008 | 2.9 2.8 |
| 1995 | | 21,889 | 14,530 | 7,359 | 12,475 | 2,698 | 9,777 | 16,503 17,136 | 1,011 2,387 | 1,324 | 12,216 | 6,435 6,231 | 5,783 6,155 | 27,002 | 3,812,920 | 2.6 |
| 1995 | | 15,292 | 9,848 | 5,444 | 10,156 | 1,528 | 8,628 | 14,072 | 739 | 776 | 10,990 | 6,748 | 4,242 | 19,829 | 3,834,659 | 2.6 |
| 1333 | | 67,105 | 43,691 | 23,414 | 44,280 | 7,281 | 36,999 | 60,413 | 5,116 | 3,476 | 46,820 | 26,375 | 20,445 | 89,450 | 3,034,033 | 2.0 |
| | rotai | 07,100 | 40,001 | 20,717 | 44,200 | 7,201 | 00,000 | 00,410 | 0,110 | 0,470 | 40,020 | 20,070 | 20,440 | 00,400 | | |
| 1996 | 5 1 | 12,402 | 8,785 | 3,617 | 12,200 | 1,447 | 10,753 | 14,370 | 1,777 | 667 | 11,550 | 7,208 | 4,342 | 21,156 | 3,857,725 | 2.7 |
| 1996 | | 17,376 | 11,771 | 5,605 | 12,964 | 1,551 | 11,413 | 17,018 | 124 | 759 | 11,927 | 6,783 | 5,144 | 23,045 | 3,882,043 | 2.6 |
| 1996 | | 24,904 | 17,259 | 7,645 | 14,735 | 2,769 | 11,966 | 19,611 | 0 | 1,315 | 11,783 | 6,305 | 5,478 | 26,404 | 3,908,447 | 2.5 |
| 1996 | | , - | 10,927 | 3,798 | 12,178 | 1,606 | 10,572 | 14,370 | (1,796) | 765 | 10,878 | 7,240 | 3,638 | 16,977 | 3,925,424 | 2.4 |
| | Total | 69,407 | 48,742 | 20,665 | 52,077 | 7,373 | 44,704 | 65,369 | 105 | 3,506 | 46,138 | 27,536 | 18,602 | 87,582 | | |
| 4007 | , , | 40.004 | 40.704 | 4 450 | 40.000 | 4 500 | 44 740 | 40.000 | 070 | 0.40 | 44.540 | 7.540 | 4.000 | 40.554 | 0.040.075 | 0.0 |
| 1997 | | 13,884 | | 1,153 | 13,309 | 1,566 | 11,743 | 12,896 | 976 | 649 | 11,540 | 7,510 | 4,030 | 18,551 | 3,943,975 | 2.2 |
| 1997 1997 | | 18,069 22,510 | 16,378 | 1,691 3,618 | 12,971 12,781 | 1,662 | 11,309 9,968 | 13,000 13,586 | 865 411 | 735 1,355 | 12,095 12,280 | 6,925 6,670 | 5,170 5,610 | 19,770 20,962 | 3,963,745 3,984,707 | 2.1 2.0 |
| 1997 | | 10.297 | 9,665 | 632 | 8,795 | 2,813 1.613 | 9,968 7,182 | 7,814 | (1,472) | 787 | 12,280 | 7,100 | 5,610 3,865 | 10,994 | | 1.8 |
| 1997 | | 64,760 | , | 7,094 | 47,856 | 7,654 | 40,202 | 47,296 | 780 | 3,526 | 46,880 | 28,205 | 3,665 18,675 | 70,277 | 3,995,701 | 1.0 |
| | rotar | 04,700 | 37,000 | 7,094 | 41,000 | 7,054 | 40,202 | 47,290 | 700 | 3,320 | 40,000 | 20,205 | 10,015 | 10,211 |] | |

| Table 2 |
|----------------------------------------------------------------|
| Quarterly Components of Population Change for British Columbia |

| | Migration | | | | | | | | | | Nat | ural Incre | ase | Total | Popula | tion |
|------------------------------|---------------|----------------|----------------------------|-------------------------------|--------------------------|-------------------------|--------------------------|-------------------------|---------------------|---------------------|----------------------------|--------------------------|-------------------------|--------------------------|------------------------|------------------|
| | _ | | terproving | | | ernational | | Total Net | Net | Returning | 51.11 | | Natural | Total | Population at End of | Annual Growth |
| Year C | Juarter | In | Out | Net | Immigration E | migration | Net | Migration | N.P.R. | Canadians | Births | Deaths | Increase | Increase | Period | Rate (%) |
| 1998 1998 1998 1998 | 2 1 3 4 | 2,654 5,911 | 16,209 20,836 37,045 | (3,555) (4,925) (8,480) | 9,097 9,878 18,975 | 1,543 1,647 3,190 | 7,554 8,231 15,785 | 3,999 3,306 7,305 | 981 840 1,821 | 675 767 1,442 | 11,115 11,885 23,000 | 7,700 7,240 14,940 | 3,415 4,645 8,060 | 9,070 9,558 18,628 | 4,004,771 4,014,329 | 1.5 1.3 |

Prepared by: Population Section, BC STATS.

Date: 28-Sep-98

Statistics Canada -- CANSIM. Source:

Note: Net N.P.R. - Net change in the number of Non-Permanent Residents. All figures subject to revision.

Table 3 Quarterly Components of Change Per 1000 Population for British Columbia

| | _ | Migration | | | | | | - ——— | | | Natural Increase | | | Total | Population | |
|------------------------------|------------------|-------------|-----------------|--------------|-----------------|----------------------------|------------|---------------------------|------------|------------------------|------------------|------------|---------------------|-------------------|-----------------------------------|------------------------------|
| Year | _ Quarte | Inter In | provinci Out | | I mmigration | nternational Emigratior | Net | Total Net Migration | Net | Returning Canadians | Births | Deaths | Natural Increase | Total Increase | Population at End of Period | Annual Growth Rate (%) |
| 1991 | 1 | 3.2 | 2.0 | 1.2 | 2.0 | 0.3 | 1.7 | 2.9 | -0.3 | 0.2 | 3.2 | 1.8 | 1.5 | 4.2 | 3,352,560 | 2.6 |
| 1991 | 2 | 5.4 | 3.2 | 2.2 | 2.4 | 0.5 | 1.9 | 4.2 | -0.2 | 0.2 | 3.5 | 1.8 | 1.7 | 6.0 | 3,373,399 | 2.5 |
| 1991 | 3 | 8.8 | 4.3 | 4.6 | 2.4 | 0.8 | 1.7 | 6.2 | 0.1 | 0.4 | 3.5 | 1.6 | 1.9 | 8.6 | 3,404,523 | 2.5 |
| 1991 | 4 | 4.5 | 2.3 | 2.2 | 2.6 | 0.4 | 2.1 | 4.3 | -0.7 | 0.2 | 3.2 | 1.9 | 1.3 | 5.2 | 3,424,109 | 2.6 |
| 1992 | 1 | 3.8 | 2.0 | 1.8 | 2.2 | 0.4 | 1.8 | 3.6 | 0.1 | 0.2 | 3.3 | 1.9 | 1.4 | 5.4 | 3,444,498 | 2.7 |
| 1992 | 2 | 5.5 | 3.0 | 2.5 | 2.8 | 0.4 | 2.4 | 4.9 | 0.0 | 0.2 | 3.5 | 1.7 | 1.7 | 6.9 | 3,470,307 | 2.9 |
| 1992 | 3 | 8.7 | 4.0 | 4.7 | 2.9 | 0.7 | 2.2 | 6.9 | 0.3 | 0.4 | 3.4 | 1.7 | 1.7 | 9.3 | 3,504,650 | 2.9 |
| 1992 | 4 | 4.5 | 2.2 | 2.3 | 2.6 | 0.4 | 2.2 | 4.5 | -0.6 | 0.2 | 3.1 | 1.8 | 1.3 | 5.4 | 3,525,529 | 3.0 |
| 1993 | 1 | 3.8 | 1.9 | 1.9 | 2.8 | 0.4 | 2.4 | 4.3 | -0.5 | 0.2 | 3.1 | 2.0 | 1.1 | 5.1 | 3,545,414 | 2.9 |
| 1993 | 2 | 5.3 | 2.9 | 2.5 | 3.2 | 0.4 | 2.8 | 5.3 | -0.3 | 0.2 | 3.3 | 1.7 | 1.6 | 6.8 | 3,571,525 | 2.9 |
| 1993 | 3 | 7.6 | 3.8 | 3.8 | 3.9 | 0.7 | 3.2 | 7.0 | 0.1 | 0.4 | 3.3 | 1.6 | 1.6 | 9.1 | 3,606,254 | 2.9 |
| 1993 | 4 | 4.3 | 2.0 | 2.3 | 2.9 | 0.4 | 2.5 | 4.8 | -0.5 | 0.2 | 3.1 | 1.8 | 1.3 | 5.7 | 3,628,866 | 2.9 |
| 1994 | 1 | 3.7 | 2.0 | 1.6 | 3.2 | 0.4 | 2.8 | 4.5 | -0.1 | 0.2 | 3.1 | 1.9 | 1.2 | 5.8 | 3,651,953 | 3.0 |
| 1994 | 2 | 5.5 | 2.8 | 2.6 | 3.6 | 0.4 | 3.2 | 5.8 | -0.1 | 0.2 | 3.3 | 1.7 | 1.6 | 7.6 | 3,681,750 | 3.1 |
| 1994 | 3 | 6.9 | 3.6 | 3.3 | 4.1 | 0.7 | 3.4 | 6.7 | 0.5 | 0.4 | 3.3 | 1.7 | 1.6 | 9.2 | 3,717,930 | 3.1 |
| 1994 | 4 | 4.1 | 2.4 | 1.7 | 2.4 | 0.4 | 2.0 | 3.7 | -0.3 | 0.2 | 3.0 | 1.8 | 1.2 | 4.7 | 3,737,570 | 3.0 |
| 1995 | 1 | 3.5 | 2.3 | 1.2 | 2.6 | 0.4 | 2.2 | 3.4 | 0.3 | 0.2 | 3.0 | 1.9 | 1.1 | 4.9 | 3,758,069 | 2.9 |
| 1995 | 2 | 4.5 | 2.8 | 1.7 | 3.1 | 0.4 | 2.7 | 4.4 | 0.3 | 0.2 | 3.2 | 1.7 | 1.5 | 6.4 | 3,784,008 | 2.8 |
| 1995 | 3 | 5.7 | 3.8 | 1.9 | 3.3 | 0.7 | 2.6 | 4.5 | 0.6 | 0.3 | 3.2 | 1.6 | 1.6 | 7.1 | 3,812,920 | 2.6 |
| 1995 | 4 | 4.0 | 2.6 | 1.4 | 2.6 | 0.4 | 2.3 | 3.7 | 0.2 | 0.2 | 2.9 | 1.8 | 1.1 | 5.2 | 3,834,659 | 2.6 |
| 1996 | 1 | 3.2 | 2.3 | 0.9 | 3.2 | 0.4 | 2.8 | 3.7 | 0.5 | 0.2 | 3.0 | 1.9 | 1.1 | 5.5 | 3,857,725 | 2.7 |
| 1996 | 2 | 4.5 | 3.0 | 1.4 | 3.3 | 0.4 | 2.9 | 4.4 | 0.0 | 0.2 | 3.1 | 1.7 | 1.3 | 5.9 | 3,882,043 | 2.6 |
| 1996 | 3 | 6.4 | 4.4 | 2.0 | 3.8 | 0.7 | 3.1 | 5.0 | 0.0 | 0.3 | 3.0 | 1.6 | 1.4 | 6.8 | 3,908,447 | 2.5 |
| 1996 | 4 | 3.8 | 2.8 | 1.0 | 3.1 | 0.4 | 2.7 | 3.7 | -0.5 | 0.2 | 2.8 | 1.8 | 0.9 | 4.3 | 3,925,424 | 2.4 |
| 1997 | 1 | 3.5 | 3.2 | 0.3 | 3.4 | 0.4 | 3.0 | 3.3 | 0.2 | 0.2 | 2.9 | 1.9 | 1.0 | 4.7 | 3,943,975 | 2.2 |
| 1997 | 2 | 4.6 | 4.1 | 0.4 | 3.3 | 0.4 | 2.9 | 3.3 | 0.2 | 0.2 | 3.1 | 1.7 | 1.3 | 5.0 | 3,963,745 | 2.1 |
| 1997 | 3 | 5.6 | 4.7 | 0.9 | 3.2 | 0.7 | 2.5 | 3.4 | 0.1 | 0.3 | 3.1 | 1.7 | 1.4 | 5.3 | 3,984,707 | 2.0 |
| 1997 | 4 | 2.6 | 2.4 | 0.2 | 2.2 | 0.4 | 1.8 | 2.0 | -0.4 | 0.2 | 2.7 | 1.8 | 1.0 | 2.8 | 3,995,701 | 1.8 |
| 1998 1998 1998 1998 | 1 2 3 4 | 3.2 4.0 | 4.0 5.2 | -0.9 -1.2 | 2.3 2.5 | 0.4 0.4 | 1.9 2.1 | 1.0 0.8 | 0.2 0.2 | 0.2 0.2 | 2.8 3.0 | 1.9 1.8 | 0.9 1.2 | 2.3 2.4 | 4,004,771 4,014,329 | 1.5 1.3 |

Prepared by: Population Section, BC STATS. Date: 28-Sep-98

Note: Net N.P.R. - Net change in the number of Non-Permanent Residents. All figures subject to revision. Source: Statistics Canada -- CANSIM.

Feature Article: How many people were missed in the Census?

Summary

In each census, some Canadian residents are missed and some are counted more than once. Starting with the 1991 Census, Statistics Canada made the decision to adjust the official population estimates to include a measure of net census undercoverage (persons missed less persons counted more than once). The population estimates in this report are based on information from the 1996 Census, adjusted for net census undercoverage.

After each census, Statistics Canada undertakes an extensive evaluation of the quality of the census using statistical methods to assess the coverage of the census. These coverage studies consist of the Reverse Record Check, which primarily measures undercoverage, Automated and the Match and Collective Dwellings studies. which measure overcoverage.

People are missed in the census for numerous reasons - households, such as those in secondary suites that are difficult for the enumerators to locate, difficulties in understanding the questionnaire, uncertainty about whether to include someone in a household, persons with no usual residence and a few people who refuse to participate in the census.

The Reverse Record Check (RRC) study selects a sample of approximately 57,000 Canadian residents, who should have been enumerated in the 1996 Census. These persons are selected from the following sources:

 persons enumerated in the 1991 Census:

- persons born between the 1991 and 1996 Censuses:
- immigrants who entered Canada between the 1991 and 1996 Censuses;
- persons who were not enumerated in the 1991 Census, as identified from the 1991 RRC;
- persons on work, student or ministerial permits and refugee claimants, who were in Canada on Census day (May 14, 1996);
- persons on Territorial Health Care Files (for Yukon and NWT only).

The sample represents the same target population as the census, but is obtained in such a manner as to be independent of the census itself. For each person selected in the sample, it must be determined if the person was enumerated in the 1996 Census, if so how many times and if not why not (e.g. the person died, left the country, was missed by the census,..). The RRC is a comprehensive record linkage and matching procedure, which systematically traces all persons in its sample, interviews them to obtain a census day address, and matches these persons to individual census documents.

Overcoverage in the census occurs when persons in the census target population are counted more than once, and when persons not in the target population (e.g. foreign residents, fictitious persons or pets) are enumerated. The first type of overcoverage can occur when a respondent fills out two census forms at different dwellings or when two census questionnaires are delivered to the same household.

Feature Article: How many people are missed in the Census?

The Automated Match Study (AMS) is designed to detect pairs of similar households, based on the number of persons matched between households (same sex and date of birth), the size of the two households and their relative proximity. Once pairs of similar households are detected, the census questionnaires for a sample of them are verified manually to determine the amount of overcoverage.

The Collective Dwelling Study (CDS) measures overcoverage of persons who are enumerated in both a private dwelling and also in a collective dwelling, such as a hospital, a hotel, or a student residence.

In addition to the AMS and CDS, overcoverage can also be detected by the RRC study.

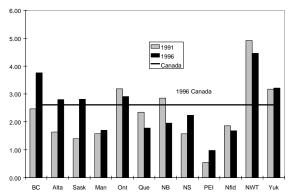
There is another category of missed, which the RCC can not adequately measure, namely incompletely enumerated Indian reserves and Indian settlements, where enumeration was not permitted or was interrupted before it could be completed, or where the quality of the data was considered inadequate. A regression model is used to estimate this category of missed people.

There are two other categories in which people may be missed, but for which there are no adequate estimates:

 Returning emigrants, Canadian citizens or landed immigrants who emigrated before the 1991 Census and returned to Canada to take up permanent residence prior to the 1996 Census; Temporarily abroad, Canadian citizens or landed immigrants who were temporarily abroad in 1991, did not have a usual place of residence in Canada, and returned to Canada prior to the 1996 Census.

The following chart and table show the results of the 1996 Census coverage studies, as released by Statistics Canada on September 24, 1998. The 1991 net undercoverage rate is also shown for comparison purposes. Note that this rate has been revised from that previously published as a result of information obtained from the 1996 coverage studies.

In 1996 B.C. had a high undercoverage rate.



The estimates indicate that in 1996 British Columbia had a net undercoverage rate that was much higher than that of other provinces and territories with the exception of NWT. This situation is not unique, as in most censuses B.C. has had a higher than average proportion of the population that was missed. Some of the factors that may contribute to the high rate are the remoteness of some areas of the province, the high mobility of the population and the large number of recent immigrants, in particular those from non-English speaking countries. All of these factors tend to make the

Feature Article: How many people were missed in the Census?

population more difficult to locate and enumerate successfully.

From the table below it can be seen that the Census of 1991 was somewhat of an anomaly. The net undercount for B.C. was about the same as the national average, while in 1981, 1986 and 1996 the rates were relatively high. This may be partially a result of a special census undercount project that was initiated jointly by the province and Statistics Canada prior to the 1991

Census. The purpose of this project was to improve the coverage of the census itself by developing an address file of dwellings using administrative records from many sources and also compiling better geographical information on the location of addresses. A similar project was not undertaken for the 1996 Census and the higher undercoverage rate may be part of the consequences.

Estimated Census Coverage Error (%)

| | | 1996 | | 1991 | 1986 | 1981 |
|-----------------|---------------|--------------|---------------|------|-----------|------|
| | Gross | Gross | Net | | | |
| | Undercoverage | Overcoverage | Undercoverage | Net | undercove | rage |
| | | | | | | |
| Britsh Columbia | 4.65 | 0.89 | 3.76 | 2.47 | 3.25 | 2.20 |
| Alberta | 3.39 | 0.59 | 2.80 | 1.63 | 2.18 | 1.62 |
| Saskatchewan | 3.36 | 0.55 | 2.81 | 1.40 | 1.59 | 0.47 |
| Manitoba | 2.58 | 0.88 | 1.69 | 1.57 | 2.25 | 0.55 |
| Ontario | 3.58 | 0.67 | 2.91 | 3.18 | 2.49 | 1.29 |
| Quebec | 2.63 | 0.85 | 1.78 | 2.35 | 2.04 | 1.23 |
| New Brunswick | 2.55 | 0.59 | 1.96 | 2.85 | 1.92 | 1.18 |
| Nova Scotia | 2.70 | 0.47 | 2.24 | 1.57 | 1.46 | 0.60 |
| PEI | 1.89 | 0.91 | 0.97 | 0.55 | 1.43 | 0.70 |
| Newfoundland | 2.45 | 0.77 | 1.68 | 1.86 | 1.31 | 1.09 |
| NWT | 5.66 | 1.20 | 4.46 | 4.92 | 4.60 | 3.12 |
| Yukon | 3.92 | 0.70 | 3.22 | 3.17 | 3.25 | 1.96 |
| Canada | 3.35 | 0.74 | 2.61 | 2.52 | 2.31 | 1.31 |

Source: Statistics Canada

1996

Sep

Regional Migration

| Rece Sep Dec Apr Jun Sep Dec Apr | 1994 1994 1995 1995 1995 1995 1996 | Migration and Population Aging Migration Benefits Women Less Than Men B.C. Migration - Outlook for 1995 Seasonal Patterns of Migration Regional Interprovincial Migration What is Happening to Interprovincial Migration? B.C. Migration - Outlook for 1996 | Mar Jun Sep Jan Mar Jun | 1997 1997 1997 1998 1998 1998 | B.C. Migration - Outlook for 1997 Indian Reserves in British Columbia Where do the Young and Old Live? Migration and Housing Demand B.C. Migration - Outlook for 1998 Mobility and Migration between 1991 and 1996 |
|-------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Jun | 1996 | Migration and Housing Demand | | | |

1996

Dec

Retirement in B.C.